<110> Craig Rosen et al.

<120> 20 Human Secreted Proteins

<130> PZ005P1

<140> Unassigned
<141> 1998-10-06

<150> PCT/US98/06801
<151> 1998-04-07

<150> 60/042,726
<151> 1997-04-08

<150> 60/042,727
<151> 1997-04-08

<150> 60/042,728
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<150> 60/042,754
<151> 1997-04-08

<150> 60/042,825
<151> 1997-04-08

<150> 60/048,068
<151> 1997-05-30

<150> 60/048,070
<151> 1997-05-30

<150> 60/048,184
<151> 1997-05-30

<160> 86

<170> PatentIn Ver. 2.0

<210> 1
<211> 733
<212> DNA
<213> Homo sapiens

<400> 1
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aattcgaggg tgcaccgtca gtcttcctct ccccccaaa acccaaggac accctcatga   120
tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg   180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg   240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact   300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca accccatcg   360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc   420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct   480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga   540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg   600

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acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc    660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc    720
gactctagag gat                                                       733
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<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<221> Site
<222> (3)
<223> Xaa equals any of the twenty naturally ocurring L-amino acids

<400> 2
Trp Ser Xaa Trp Ser
 1   5

<210> 3
<211> 86
<212> DNA
<213> Homo sapiens

<400> 3
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gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc    60
cccgaaatat ctgccatctc aattag                                         86
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<210> 4
<211> 27
<212> DNA
<213> Homo sapiens

<400> 4
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gcggcaagct ttttgcaaag cctaggc                                        27
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<210> 5
<211> 271
<212> DNA
<213> Homo sapiens

<400> 5
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ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg    60
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc   120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat   180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt   240
ttttggaggc ctaggctttt gcaaaaagct t                                  271
```

<210> 6
<211> 32
<212> DNA
<213> Homo sapiens

<400> 6
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gcgctcgagg gatgacagcg atagaacccc gg                                  32
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<210> 7
<211> 31
<212> DNA
<213> Homo sapiens

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c                                    31


<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc                                                         12


<210> 9
<211> 73
<212> DNA
<213> Homo sapiens

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg     60
ccatctcaat tag                                                        73


<210> 10
<211> 256
<212> DNA
<213> Homo sapiens

<400> 10
ctcgagggga cttttccggg gactttccgg ggactttccg ggactttcca tctgccatct     60
caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc    120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga    180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg    240
cttttgcaaa aagctt                                                    256


<210> 11
<211> 919
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> n equals a,t,g, or c

<400> 11
aattcggcag aggtccaatt cagttttttca ggccagtgca ncttgatacc aaaaccaata     60
aaacaaacaa acaaacaaaa aacataaagc tatagaccaa agtctcatag atttagatgc    120
aaaatcctaa aattgaaaaa aaaagtctag tcatatccat aaactgtatc atcaccaaga    180
gatgtttatt agggcaatca aaagatgatt tattattttt taaaaaatca atgtggcctt    240
```

```
cccttcctct ttcttttgat tcccctcttt gagttttat gtgtctcttt tgccttccct    300
tcccagagtg gaggagttag acctgcattg tgggatgaga ggagttgtgg ctatgtgtct    360
gctggcacca agagggctga gggtgaggtg tggaagggac agggggagga gatgggcagc    420
attgttaaga gattggtacc actgagcaaa tatgttgaga atgatgatgg caaggtttct    480
ccctgttaga gaaggtattt gtagaaatag gaatgaggag agctagaaaa cctggagtgt    540
gggattagaa tagaactcat atcttttaaa tacataggaa caatagagaa attgttgggt    600
gtgcccatat acatatattt tgtgattcat tctaccgaga ggacataaat gcagtcacag    660
ctcagtaaca gtaaacacac caactgccaa gttattattt cctaaatact atccacaaaa    720
aaggggacca gggatgattc ctagtcggag attgggagaa aaagaagatg agcctgaatc    780
atttcatgta cctaacagaa agaaaatact ctggctgggc tcagtggctc atgtttgtaa    840
ttctagcatg ttaggargtc sargtgggtg tgttgcttga gcccaggart ttgagaccag    900
cccaggcaac atggcaata                                                 919
```

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<210> 12
<211> 1026
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (974)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1011)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1024)
<223> n equals a,t,g, or c

<400> 12
ggcacgaggt tttgtctgca gcacctgcca tgaactcctg gttgacatga tttattttg      60
gaagaatgag aagctatact gtggcagaca ttactgtgac agcgagaaac cccgatgtgc     120
tggctgtgac gagctgatat tcagcaatga gtatacccag gcagaaaacc agaattggca     180
cctgaaacac ttctgctgct ttgactgtga tagcattcta gctggggaga tatacgtgat     240
ggtcaatgac aagcccgtgt gcaagccctg ctatgtgaag aatcacgctg tggtgtgtca     300
aggatgccac aatgccatcg acccagaagt gcagcgcgtg acctataaca atttcagctg     360
gcatgcatcc acagagtgct ttctgtgctc ttgctgcagc aaatgcctca ttgggcagaa     420
gttcatgcca gtagaaggga tggttttctg ttcagtggaa tgtaagaaga ggatgtctta     480
ggaggagggc acccagaagt atcgagccat agctatccaa agtggtctgc atttctactg     540
taaaatgcaa tttgaaaaaa ataaaacgca aaaaagaaa ctgtaaagga aaccaagaga      600
ttttgtttaa ttttttttggc cattttttct tcatcaattt ttttcggtc tcaactttta     660
aacttggttt aagcatttga tttgtaaaac agtaaataat tgtatctttc catagctttt     720
caaatgtgaa atcattttg gaagcttgga tctcattaaa cttcatgtct ctattccatt      780
tgtgccacac acttaaaagt tagtgtactg aatggaaaga tgagcattcc tagttctaca     840
cttctttttt cccctcatg tgtaaaatga aagaaaact aaatttgccc taataccaag       900
gcgctacgtt tattgcctcg tcttattcac tgaccttttg taatgataca cagtgaattc     960
ttttttgaca aagnggaatg cggtttggta tgcagagctg ctggttttaa ngcccatggc    1020
attnac                                                              1026
```

```
<210> 13
<211> 2067
<212> DNA
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<213> Homo sapiens

<400> 13

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aattcggcac gagctttttaa taggaagtaa tgtctcaccc aagagaaatg aagagcaggg    60
aagagtgact ttctccttct ccctccctct cccctggata tggaactcaa ccattatgca   120
ctgcttctttt ttgtggttgc tgctttttgg acttcttgga attagtggtt tccttggtta   180
tatttcagtg gctggtarca gtatatatgt catgtggaag gtggaraagg aaatgaatac   240
ttaggtctca aagacccact ctccatggct gctttagcag atggctgttt ctttctctcc   300
cttgcaggtt ggggatagga ttgtcaccat ctgtggcaca tccactgagg gcatgactca   360
cacccaagca gttaacctac tgaaaaatgc atctggctcc attgaaatgc aggtggttgc   420
tggaggagac gtgagtgtgg tcacaggtca tcagcaggag cctgcaagtt ccagtctttc   480
tttcactggg ctgacgtcaa gcagtatatt tcaggatgat ttaggacctc ctcaatgtaa   540
gtctattaca ctagagcgag gaccagatgg cttaggcttc agtatagttg ggaggatatg   600
ggcagccctc atgggagact accccattta tgttaaaaca gtgttttgca aaggggagca   660
gcctctggaa gacggacgtc ttgaaaaggg gggcgattcc agatcattgc tgtcaatggg   720
cagagtctag awggagtcac ccatgaagaa gctkttgcca tccttaaacg gacaaaaggg   780
cactgtcact ttgatggttc tctcttgaat tggctgccag aattgaacca acccaacccc   840
tagctcacct cctactgtaa agagaatgca ctggtcctga caatttttat gctgtgttca   900
gccgggtctt caaaactgta gggggggaaat aacacttaag tttctttttc tcatctagaa   960
atgctttcct tactgacaac ctaacatcat ttttcttttc ttcttgcatt ttgtgaactt  1020
aaagagaagg aatatttgtg taggtgaatc tcgtttttat ttgtggagat atctaatgtt  1080
ttgtagtcac atgggcaaga attattacat gctaagctgg ttagtataaa gaaagataat  1140
tctaaagcta accaaagaaa atggcttcag taaattagga tgaaaaatga aaatataaaa  1200
taaagaagaa aatctcgggg agtttaaaaa aaatgcctca atttggcaat ctacctcctc  1260
tccccacccc aaactaaaaa aaraaaaaaa ggttttctaa tgaaaatctt taaaaatact  1320
gtcagtattt taaaattttc aacagtatta taaaaacatt gcatctcccc acctctaata  1380
tgcatatata ttttttcctgc taaaattggt ttctacaatt gagtaaatgg caaatacatg  1440
aagcaatgtc cctaaatttt ataaagaaat tatatttaat gcacatttca attttcattc  1500
ttatttttga ccttttgtaa aatattttca tgttgctata agtaaatgat gatgccaccc  1560
cakgttgact atggkttttc tagaaagcaa ctatgctgct aaccatagag gaacatagaa  1620
gggttccaga atctttagtg ctggtttttaa caaccgatgc aacattaaaa atgtgttagt  1680
gtgctgtgca attggttttc aattcatatt aatcttaatg acagagaaca atgtgttact  1740
aattattttg gttgtatgcc attagtaaat tgatagaaaa attaagggga ttaacataac  1800
ttcatttcat tgccttatat taacatctta taatacaata gtttaagact aagggaaaca  1860
gatggagctg tttattgaga caactggtga ggaattatca tgtgttcatt cccatttttag  1920
agcgtgaaac tcctacatta gaatatataa agtcacttta aatatctata tttgtaacag  1980
aagtagtgta cagatatttt attacagcat ttttgtgtaa atgcagaatt aaagtgaata  2040
ataagaatt ttcagtggtg cacaaat                                        2067
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<210> 14
<211> 1341
<212> DNA
<213> Homo sapiens

<400> 14

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ggcacgagct ggcctggacg aacgggaagc cgggagctcg gccacgggtg gcgaggctgc    60
ggtgaggcct ggtctccggc tgccagacca tgctgagtgg agcacgctgc aggctcgcct   120
cagcgctgcg gggaacgcgc gcgccgccgt ccgcggtcgc ccgtagtgcc tgcacgcgtc   180
ggggtcgcgg cctttggcac cggggcaaga agactgagga gccgccccgc gacttcgatc   240
cggcgctgct ggagttcctg gtgtgcccgc tctccaagaa gccgctcaga tatgaagcat   300
caacaaacga attgattaat gaagagttgg gaatagctta tccaatcatt gatgggatcc   360
ctaatatgat accacaggca gctaggatga cacgtcaaag taagaagcaa gaagaagtgg   420
agcagcgcta gttcataatt taaaaaaatt aaaaaaacgc aacagccaac ttttcttaat   480
accatatacc ttttaaaaca cagtggcagg taataagtgg aagagaagaa tgtttctgtc   540
tcttcctacg ttgactgttc ttattccact ggtttctttta gcaggactgt tctactcagc   600
ctctgtggaa gaaaacttcc cacagggctg cactagcaca gccagccttt gctttttacag   660
cctgctcttg cctattacca taccagtgta tgtattcttc cacctttgga cttggatggg   720
```

```
tattaaactc ttcaggcata attgatgcaa ctagagtcaa tatgctgtat atattaatga      780
tagctcttgg gcatcgatct ctgaaagctc aaatggatgg aatttagttt gcgggaaaga      840
ggctttgctt tgcgcatatc aggcttagga ctgtgggagg cttaagttgc agatgcttct      900
tttattgtac tcttgttctg cccttgtttt ttgaaggctc tgacttataa ctgctgtatc      960
agaagaaaca ttttgacagt gtcttggttg gagatgaaca tccctaattg acatgtgatg     1020
actatttctt attccattca tctaagagtc attgaaattt tgttttgctt gtttgtttag     1080
cttcaaggtc tttggtaaag tcacatgtta aggatgactg aaataattcc aaaggagtga     1140
tgttggaata gtccctctaa gggagagaaa tgcatttgaa cgaatgtgat ataaaaccac     1200
ataatcaaat agaaacttca tgtacttaca aaaactgagt ttgtaaaatt accttcattt     1260
ctttgacatt aaatgcttat attagcaata aacatgttga cactttccta taaaaaawaa     1320
aaaaaaaaaa aaaaaaaaat t                                                1341
```

```
<210> 15
<211> 1443
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1435)
<223> n equals a,t,g, or c

<400> 15
ggccgggcgc tcctgaagca gcagttatgg agcttccctc agggccgggg ccggagcggc       60
tctttgactc gcaccggctt ccgggtgact gcttcctact gctcgtgctg ctgctctacg      120
cgccagtcgg gttctgcctc ctcgtcctgc gcctctttct cgggatccac gtcttcctgg      180
tcagctgcgc gctgccagac agcgtccttc gcagattcgt agtgcggacc atgtgtgcgg      240
tgctagggct cgtggcccgg caggaggact ccggactccg ggatcacagt gtcagggtcc      300
tcatttccaa ccatgtgaca cctttcgacc acaacatagt caatttgctt accacctgta      360
gcacccctct actcaatagt ccccccagct ttgtgtgctg gtctcggggc ttcatggaga      420
tgaatgggcg ggggggagttg gtggagtcac tcaagagatt ctgtgcttcc acgaggcttc      480
cccccactcc tctgctgcta ttccctgagg aagaggccac caatggccgg gaggggctcc      540
tgcgcttcag ttcctggcca ttttctatcc aagatgtggt acaacctctt accctgcaag      600
ttcagagacc cctggtctct gtgacggtgt cagatgcctc ctgggtctca gaactgctgt      660
ggtcactttt cgtccctttc acggtgtatc aagtaaggtg gcttcgtcct gttcatcgcc      720
aactagggga agcgaatgag gagtttgcac tccgtgtaca acagctggtg gccaaggaat      780
tgggccagac agggacacgg ctcactccag ctgacaaagc agagcacatg aagcgacaaa      840
gacaccccag attgcgcccc cagtcagccc agtcttcttt ccctccctcc cctggtcctt      900
ctcctgatgt gcaactggca actctggctc agagagtcaa ggaagttttg ccccatgtgc      960
cattgggtgt catccagaga gacctggcca agactggctg tgtagacttg actatcacta     1020
atctgcttga gggggccgta gctttcatgc ctgaagacat caccaaggga actcagtccc     1080
tacccacagc ctctgcctcc aagtttccca gctctggccc ggtgacccct cagccaacag     1140
ccctaacatt tgccaagtct tcctgggccc ggcaggagag cctgcaggag cgcaagcaag     1200
cactatatga atacgcaaga aggagattca cagagagacg agcccaggag ctgactgag     1260
ctcaaaggaa caggatggca cccagagccg caggacggag actgggggca gccctcaccc     1320
aactcacaac aggctggatg ggtgggtggt aaaaagggaa ggatgaggct cccccaatgt     1380
cacattaaat tcatggtttt cattcaaaaa aaaaaaaaa aaacttccgg ggggnggccc     1440
cgt                                                                    1443
```

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<210> 16
<211> 929
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
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<222> (145)
<223> n equals a,t,g, or c

<400> 16

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tttttttttt tttttttttc agcttggtgg tttcctcttt attgatgtgc ctcctacctt      60
cccccacaa  tttcagtccc ttccaactac ccccaaaaaa gaaggtagtg aaaggaaggg     120
attgctgggg ttctgagccc cttgngasgt cagaaaggga acagaaacca aaacaatcac     180
tggatgtgac acagactgac aatcaagaag tctacagcag gatgggaaag gcgggcagag     240
aaaggggaag aaaggagaaa ggagagttac aagatgccaa ctccaccatt acccctccta     300
agagaggctg gagagaaagc cacaaacatt aagaagtgcc ggtcctgaat aagggaggtg     360
gtgtttgagc ttgaaggagg aggaggtcaa gaaaggggg ccacctctct cttttgtagaa     420
tgagaccccc ctccagctca ggggcagcag cttcacagac cgtagacact ttcgtcactg     480
taggcaatgt agagaaagaa gtcttcttca tggtgttcct ggtacagctg acccattgtg     540
gcactggtgg gtggaatgac attgttgaca aagaaaaaca aggcatcctc agctcggaga     600
tgaattcgct tccggatcaa gaagtagaac tgaccaactg tgagatcaga aggcaccagg     660
tatttctttt tgtccaggtc tcctatccga gctttgggag cctttttctac tatcaccggc     720
acccggtccg ggtatttctt tcggatcttc tcgccctcag agcggcgctt ctcgaacgga     780
tgctcttctt tgtacacgaa cttcatcctc ccgggaaccg ggctggacag ggctgggctg     840
agggaaccca ggggggccgg gacggggggc ggcgacgacg gcggcgacgc gcgggcggat     900
tcagcggagc ggatccacga atttgcgct                                       929
```

<210> 17
<211> 749
<212> DNA
<213> Homo sapiens

<400> 17

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aaagatggct gcgccaggta atttgagcaa aggccacagt gaactccggc gtggctgagg      60
aaggaggagg cacccacagg ctgctgggag gagagcataa ggctcaaaat ggaaaatcat     120
aaatccaata ataaggaaaa cataacaatt gttgatatat ccagaaaaat taaccagctt     180
ccagaagcag aaaggaatct acttgaaaat ggatcggttt atgttggatt aaatgctgct     240
ctttgtggcc tcatagcaaa cagtcttttt cgacgcatct tgaatgtgac aaaggctcgc     300
atagctgctg gcttaccaat ggcagggata cctttttctta caacagactt aacttacaga     360
tgttttgtaa gttttccttt gaatacaggt gatttggatt gtgaaacctg taccataaca     420
cggagtggac tgactggtct tgttattggt ggtctatacc ctgtttttctt ggctatacct     480
gtaaatggtg gtctagcagc caggtatcaa tcagctctgt taccacacaa agggaacatc     540
ttaagttact ggattagaac ttctaagcct gtctttagaa agatgttatt tcctattttg     600
ctccagacta tgttttcagc ataccttggg tctgaacaat ataaactact tataaaggcc     660
cttcagttat ctgaacctgg caaagaaatt cactgatttt aaacaaatat gtaaacaaaa     720
ataaatggt aaaaacaraa aaaaaaaaa                                       749
```

<210> 18
<211> 511
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (494)
<223> n equals a,t,g, or c

<400> 18

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aattcggcac gagccagatt cccataaagc acatggtcta atctgttacg taacagcaag      60
acagcgtcac ctcacctgtt ctcgccctca aatgggaacg ctggcctggg actaaagcat     120
agaccaccag gctgagtatc ctgacctgag tcatccccag ggatcaggag cctccagcag     180
ggaaccttcc attatattct tcaagcaact tacagctgca ccgacagttg cgatgaaagt     240
tctaatctct tccctcctcc tgttgctgcc actaatgctg atgtccatgg tctctagcag     300
cctgaatcca ggggtcgcca gaggccacag ggaccgaggc caggsttcta ggagatggct     360
ccaggaaggc ggccaagaat gtragtgcaa agattggttc ctgagagccc gagaagaaaa     420
ttcatgacag tgtctgggct gccaaagaar cartgcccnt gtgattcttt caagggcatg     480
tgaagaaaac aagncaccaa aggcaccaca g                                     511
```

<210> 19
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (281)
<223> n equals a,t,g, or c

<400> 19

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ggcacgagga ggcgatggcc cacggggctg ctagccgtgc tgcggcccct gctcacctgc      60
cggcccctgc aaggcacgac gctgcaacgg gatgtgctgc tctttgagca tgatcggggc     120
cgcttcttca ccatcctcgg gctgttctgc gcgggccagg gcgtcttctg ggcttccatg     180
gctgtggcag ccgtgtcccg gcccccggtt ccggtgcagc ctctggatgc ggaggtccca     240
aatcgtggcc ccttcgacct gcgctccgcg ytctggcgct nacggtctgg ccgtcggctg     300
cggcgccatc ggagccctcg tactcggtgc tggtcttctc ttctctctcc ggtctgtgcg     360
ctcagtggtg cttcgagctg gagggcagca ggtgaccctc accactcatg ccccctttgg     420
cttggggggcc catttcacag ttcctttgaa gcaggtatct tgcatggccc accggggtga     480
agtccctgcc atgctacctc tgaaakkcaa aggccgacgc ttctatttcc tcttggacaa     540
aactggacac ttcccytaac acaaaactyt ttgacaatac tgtgggtgcc taccggagct     600
tgtgaagaaa tgacctcaag tcactcacct ctccaagagg aggataaaaa ctgaacctyg     660
gggagccagg tgtgttggtt cacacctgt                                       689
```

<210> 20
<211> 1147
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1146)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1147)
<223> n equals a,t,g, or c

<400> 20

```
tcgacccacg cgtccgggcg ggcctgtttc cgggaggcgc gtggggcttg aggccgagaa        60
cggccnttgc tgccaccaac atggagactt tgtaccgtgt cccgttctta gtgctcgaat       120
gtcccaacct gaagctgaag aagccgccct ggttgacat gccgtcggcc atgactgtgt         180
atgctctggt ggtggtgtct tacttcctca tcaccggagg aataatttat gatgttattg       240
ttgaacctcc aagtgtcggt tctatgactg atgaacatgg gcatcagagg ccagtagctt       300
tcttggccta cagagtaaat ggacaatata ttatggaagg acttgcatcc agcttcctat       360
ttacaatggg aggtttaggt ttcataatcc tggaccgatc gaatgcacca aatatcccaa       420
aactcaatag attccttctt ctgttcattg gattcgtctg tgtcctattg agttttttca       480
tggctagagt attcatgaga atgaaactgc cgggctatct gatgggttag agtgcctttg       540
agaagaaatc agtggatact ggatttgctc ctgtcaatga agttttaaag gctgtaccaa       600
tcctctaata tgaaatgtgg aaaagaatga agagcagcag taaaagaaat atctagtgaa       660
aaaacaggaa gcgtattgaa gcttggacta gaatttcttc ttggtattaa agagacaagt       720
ttatcacaga atttttttc ctgctggcct attgctatac caatgatgtt gagtggcatt        780
ttctttttag tttttcatta aaatatattc catatctaca actataatat caaataaagt       840
gattattttt tacaaccctc ttaacatttt ttggagatga catttctgat tttcagaaat       900
taacataaaa tccagaagca agattccgta agctgagaac tctggacagt tgatcagctt       960
tacctatggt gctttgcctt taactagagt gtgtgatggt agattatttc agatatgtat      1020
gtaaaactgt ttcctgaaca ataagatgta tgaacggagc agaaataaat acttttttcta     1080
attaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1140
aaaaann                                                               1147


<210> 21
<211> 532
<212> DNA
<213> Homo sapiens

<400> 21
ctttgttctc tttcttctac accagcagtt tttatttgcc tgtttcccag agtaatgtgg        60
gccatggagt caggccacct cctctgggct ctgctgttca tgcagtcctt gtggcctcaa       120
ctgactgatg gagccactcg agtctactac ctgggcatcc gggatgtgca gtggaactat       180
gctcccaagg gaagaaatgt catcacgaac cagcctctgg acagtgacat gtaggtttaa       240
tttcttgtgg tatttgaggg gaagttatgg gagcactctt gaggtcagga agtagcctct       300
tgaggcccct ttcccarggt gtggtagcag ccagctcctg attgctccga gctgtacata       360
ctcagtggca gatttcctgg gaagaagcta gttgagtcag aasccagcat ttcatctgga       420
gtttgscgta acatttttag agtcctaaag araattccat atttgctgtt ttctaatctc       480
atacccacaa tgctacttat ttaataacaa ctgtttgact ttaaaaaaaa aa               532


<210> 22
<211> 2743
<212> DNA
<213> Homo sapiens

<400> 22
tgaacccgcc cctctcccag agtggagctg cggggggcgg aacaggcac ggagaaaata         60
aacaagacta aaaagtcctg agtagcgctg tgtggccgca aacctgaacc cacctttgc        120
accacgcggg acccggcact cttcctgcca cccacccctg agagggtgcg cggccgaccc       180
cagtactaga aaacactcgt cacctcactc aagacgggta cgaaggccaa cggacgcctt       240
cctttagaac gctcagcaca cagagcaact tctcacgcct actctcaaat ggcgtactcc       300
aaactagcac tcccgacgtc cagctgtgaa cccagagcgg cggaaagccc tggaacccag       360
cgcccgggca tgycagacg cgttgttgtg gtgggcgtgg ctccctccgg acccggcgcc        420
ccggcctgcc gccccgtgtc cgcatgcgcg actgagccgg gtggatggta ctgctgcatc       480
cgggtgtctg gaggctgtgg ccgtttgtt ttcttggcta aaatcggggg agtgaggcgg        540
gccggcgcgg cgcgacaccg ggctccggaa ccactgcacg acggggctgg actgacctga       600
aaaaaatgtc tggatttcta gagggcttga gatgctcaga atgcattgac tggggggaaa       660
agcgcaatac tattgcttcc attgctgctg gtgtactatt ttttacaggc tggtggatta       720
tcatagatgc agctgttatt tatcccacca tgaaagattt caaccactca taccatgcct       780
```

```
gtggtgttat agcaaccata gccttcctaa tgattaatgc agtatcgaat ggacaagtcc      840
gaggtgatag ttacagtgaa ggttgtctgg gtcaaacagg tgctcgcatt tggcttttcg      900
ttggtttcat gttggccttt ggatctctga ttgcatctat gtggattctt tttggaggtt      960
atgttgctaa agaaaaagac atagtatacc ctggaattgc tgtatttttc cagaatgcct     1020
tcatcttttt tggagggctg gttttaagt ttggccgcac tgaagactta tggcagtgaa     1080
cacatctgat ttcccacagc acaacagccc tgcatgggtt tgtttgtttt tttactgctc     1140
actcccaacc ttttgtaatg ccattttcta aacttatttc tgagtgtagt ctcagcttaa     1200
agttgtgtaa tactaaaatc acgagaacac ctaaacaaca accaaaaatc tattgtggta     ·1260
tgcacttgat taacttataa aatgttagag gaaactttca catgaataat ttttgtcaaa     1320
ttttatcatg gtataatttg taaaaataaa aagaaattac aaaagaaatt atggatttgt     1380
caatgtaagt atttgtcata tctgaggtcc aaaaccacaa tgaaagtgct ctgaagattt     1440
aatgtgttta ttcaaatgtg gtctcttctg tgtcaaatgt aaatgaaat ataaacattt     1500
tttagttttt aaaatattcc gtggtcaaaa ttcttcctca ctataattgg tatttacttt     1560
taccaaaaat tctgtgaaca tgtaatgtaa ctggcttttg agggtctccc aagggggtgag     1620
tggacgtgtt ggaagagaga agcaccatgg tccagccacc aggctccctg tgtcccttcc     1680
atgggaaggt cttccgctgt gcctctcatt ccaagggcag gaagatgtga ctcagccatg     1740
acacgtggtt ctggtgggat gcacagtcac tccacatcca ccattgaagg aaaggaaaaa     1800
agggcagaga cttgacactc cagtcttaga caggggacaa tttctttgta gttgttctga     1860
taataaactg ggttccatgt tgcatttcat ctgtgtactg aaccactagc ctaatagacc     1920
agcacggtca actagaatga caaacattag ctactgggaa ctcttgttgt ctcttcctct     1980
tcagaactct tgtcccccca ggctccccac ctctgcaaga tgggatacac tcttcaggac     2040
cacagtttga aatgtctttc ataaaatgtg ctacaattag ccttcggaat atttgctggg     2100
tgatttaaat gtgtgggtct catttccatg ctagccatgg tcatctgaca gtctctacrc     2160
tgtgaatatt gcctggtgat caagactctc ctcaaagaaa tgacttgctg tcatcccaca     2220
tgaactcctg atgtttttc tacaaaagtc cataaaatgt gaaaactgga gaagatctta     2280
gaggttgaag cccacttct cttttcacat aggagggaac agaccatgga aatttaaacg     2340
acttcctcac ggtcacagaa ctagtttttt aatcctcagg cagtgcatcc ccccacccta     2400
caactgagca caacctcttt ccccacagtg caattcagaa tatgctcagg gaatgccagc     2460
caccttgtaa aactgctggg agaaaagcat gattcccaca aggactaagt atcagtgatt     2520
tgtaattttc ctgtttgta ttatctgctt tgctgatgta gacaagagtt aactgagtag     2580
catgctttat taagcatgag aaagaatctt aagaattgtc aataaaatta acccaaaact     2640
ttaataatgt gtctgtaacc aagaaaatat tgatagcatc atcctaatga aactaaacat     2700
ttattttaaa cttattaaat tgactcttaa actaaaaaaa aaa                       2743
```

<210> 23
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (784)
<223> n equals a,t,g, or c

<400> 23

```
aattcggcac gagatcacaa gctactagcg cttccattaa caattcaaat ccatctacct       60
ctgagcaggc ctctaatact rcttcagctg tcaccagtag ccaaccttcc acagtgtcag      120
agacttcagc tactcttaca agcaatagta ccactggcac ttctatagga gatgactcaa      180
ggagaactac atctagtgct gtaacggaaa ctggccctcc tgcaatgcca aggttacctt      240
cctgctgtcc ccagcactca ccatgtggag ggtcgtcaca gaaccaccat gcattaggac      300
atcctcatac aagttgcttt cagcagcatg gtcaccattt tcaacatcat caccaccacc      360
accatactcc ccactcagac cgccgccgcg ccgccatcat ggacaccagc cgtgtgcagc      420
ctatcaagct ggccaggtc accaaggtcc tgggcaggac cggttctcag ggacagtgca      480
cgcaggtgcg cgtggaattc atggacgaca cgagccgatc catcatccgc aatgtaaaag      540
gccccgtgcg cgagggcgac gtgctcaccc ttttggagtc agagcgagaa gcccggaggt      600
tgcgctgagc ttggctgctc gctgggtctt ggatgtcggg ttcgaccact ggccgatgg      660
gaatggtctg tcacartctg ctcctttttt ttgtccgcca cacgtaactg agatgctcct      720
```

```
ttaaataaag cgtttgtgtt tcaagttaaa aaaaaaaaaa aaaaaaaaaa acyccggggg        780
gggncccggt acccattggc cctwtagtgg gtcgtttttc                              820
```

<210> 24
<211> 995
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (801)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (834)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (992)
<223> n equals a,t,g, or c

<400> 24
```
attatgaatt cggacgcaga ggtgacagtg ggagctggcc tgggccagga cggcaggtgg        60
ccctggagat gggaaagtgt ctgtgtcgag gcgctgagct ctctctctgt ttctcctttt        120
ttcctctact ccttcccctt cacacccccg tggctggaag gaacctcggc ttccctgaaa        180
gcttgggggt cccacccttc ttaccccacc cgggaggaac gcccagggcc ccgggcttgt        240
ttctcctctt gttttccttt tgggcagttt gatcactgat cgagtaagga atgaccttta        300
gattgtgcga cttttgtttt tgttttttta aattttttta aaccaagaat gatttctcct        360
gcttccttct cctcaccatc ttcccagacg gagttcaaag gccacttctc aagcagcttt        420
tggcaccttc agcctcagag tggaatcttt taaagacagg acccctatgt ccaggaaagg        480
ggaaaaggaa ctttgccaat gatagtgacc acagcaaaag caaataataa taatattaat        540
aataataaag agaaataaaa taataaaata aaaaacaata gcacagccct tgttgaggtc        600
agcagggagg aggggctgcc cggagttggg tccttgcctg gattttgaca cagcaacttc        660
ctgtagtgag cactttgtat gaatcgtgga cttcctgttc tcaaggcgca ggtatttatt        720
ctgtatctgt ctagagcaca caccaaaatc caaccttcta ataaacatga tggcgcagtc        780
ccactccctg cctcgcctgt nccctatcc ccccaggcc tgggatcttc aggngtcggt        840
gtggggaggg gcccctgccc tccttgcctt gattttgctc ccctgggtcc agctggttcc        900
aggcctgtga atgtcagttc gtcgggcact gactccgtct gctcttgggc cttggggtca        960
tttgacaaat atttgcccaa gggctcccaa gncca                                  995
```

<210> 25
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (527)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (647)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (648)
<223> n equals a,t,g, or c

<400> 25
```
gaattcggca cgagcacttt aagcactatt cattttccct aatttyttcc actcaccggg       60
aattattcat tgttctcctt cactcccttg ctcagacatg tktcccatgt caccccaggg      120
gaggctgtya tgtcacaaga tgttgttact gatgatcttg gaattwtttc cctgcccca       180
gcctgggact aatgtaatta ttatttcaat gtgctttttc ttaagccata gcaatgcaat      240
ttatcttcaa cattatcatt tttaaacatc tgttaattat taacaattta ctgctyctyc      300
ttgcacaaaa tgctattcca gtaacattta ttaattaagt tatgtwcaca taccaaagat      360
tttacaggct tgtaaaatag caggccatty caaggatttc tctcttggta ragamatttg      420
twgggaaaga gttatataat cactaaatta cattcatatc aagaacactt ttcctgagtg      480
aaattagtct aggtttgctt aagtgtctct tttttattta actaagnaaa tatcatgcca      540
tatctgtctt atattgctat tatctctccc ttccgaggac cacatcttct gttacaagag      600
ggagactgtg cttcaaggga gtagaagaga tggtttcagt atatttnna               649
```

<210> 26
<211> 979
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (751)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (858)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (885)
<223> n equals a,t,g, or c

<400> 26
```
agtttctttg cctttccttg taaattttag aataaccttg tctatatcta cagatcttgc       60
tgggattttg ataagaattg cattgatcct ttataccaat ttgaggagga tttatgtact      120
ttttgtcgag tcttttaatc catgaacatg ttatatctgt tatatttagc attttgattt      180
tttcctcagt gttgcatagt tttcagtata caaatcctgt accctttttt tttagattta      240
cacctagtac tttatttttt gagcaattgt aaatggtatt gtattttaaa tttcattgcc      300
catgtgttcc attgctaata tactgaaata arattggctt ttgtatgttt atcttgtatc      360
ccacaatctt gctgaactcm cttgttctaa racttttgt arattacggg gaatttcyac       420
ataracagtt atgtcatctg caaatgggga tagttttgtt ttttccttta caaactgtat      480
actttttta tctgtttctt gctttattgc gagaacttct agagctgtgt tgagtaatag       540
tggatatctt tgccttgttc atgttcttat agggaaagca ttcagtcttt caccatttag      600
tataatgtta gctgtaggga ctttttagat cccctttacca gattgatgaa agttcctctc     660
tattcccatt tttctgagag gcttttaaa aaaagaatga atgggtgttc gattttgtca       720
aatgcatttc tgtgtcagtt gctatgaaca ngtgtttttc ttatttagcc tgttaatatg      780
gtagattaca ttgattggct ttctgatctt gagtcagcat tgcatccttg gaataaactc      840
cacctgggtg tggagaanaa atcttttttt tttttttttt tttangagat ggagtctcgc      900
tctgtcaccc aggctggagt gcagtggtgt gattgtggct cacggcaagt tcctcctcct      960
gggttcccat cattctcaa                                                   979
```

<210> 27
<211> 905
<212> DNA
<213> Homo sapiens

<400> 27

```
cgacggtttc accttgttgg ccaggctggt tttgttggcc aattgtctct aaactgctgt    60
caaaaaaagg aatggatcag attgtcttga atagggcaga gctaacctgt aatcacctgt   120
gtgatgagaa asagctttga ctgcatttta ctcctgacct ggcctaagct ttctgtttac   180
ataagatttt tcaagaattc aacttcaagt agcagccgag agagctgcct caggattctc   240
tcaaaaactg ggaataatat gggaacattt gtttcttcta aaaataaggc aaatgttaca   300
ttgaatgatt tggggggtga ggtttaattg gaaatggtct ctggggactg aaaactgatg   360
tttttgcaga ttacctcagg gaaacggagg tttgttgagt ttacagacac attaaaccaa   420
aggccgtggg aaaacccctc tccagctcca ggggattggt caggaccacc cactaaccag   480
tgccttcctt cttaacattc acttttagca gcttgtgttt attttacatg ggcagttttg   540
atgggaaatt gccatgacca caggggtttg gagttctgct tttttttttt cttcttcttt   600
ttcgggggac tggggggactc ctcccaagat cacattttag catctttctc tcctactcca   660
tttagaaaaa taagtaacag gtgaaatgtg gtctcagtgt taacgggata attctgctac   720
cggctcctcc ctgatgattc tgaaatacac tactgaacga gctctggctg gtcctttcta   780
tcctggatgt ggttcttctg tgtagcaatt ccttgatgtc cagtttggaa agatgtactc   840
ttctcaacaa gaaaaactta aatccgtcgt gcccaaaaaa aaaaaaaaaa aaaaaaaaaa   900
ctcga                                                               905
```

<210> 28
<211> 299
<212> DNA
<213> Homo sapiens

<400> 28

```
gaattctttt tttttttttt tttttttgac agagtctcac tgtgtctccc aggctggagt    60
gcagcagtac aatctcggct ctctgcaaca tcttccttcc aggttcaagc gattctcatg   120
cctcagcccc acaagtagct gggattacag gcatgcatca ccacaccctg ctaatttttg   180
tattttttagt agagacggcg tttcaccatc ttggccagac tggtctcaaa ctcctggcct   240
caagtgattc gtctgcctca gcctcccaaa aaaaaaaaaa aaaaaaaaaa aagaattcc    299
```

<210> 29
<211> 338
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (335)
<223> n equals a,t,g, or c

```
<400> 29
gaattcttct tttttttttt tttttttyt gagacagggg tcttcctctg ttgctcaggc        60
taaagtgcag tggtgcaatc atagctcact gtggcctcta cttcctggtc tcaagtgatc       120
atcytccctc agcytcctaa gtacctagga gtcatgcacc aacatgccca gctaagtatt       180
ttattttttgg tagagataag gtcttgctgt gttgcccagg ctagtctcaa attcctggcc      240
tcaagcaatc cttctgcctt ggcctcccaa attgttgggt ttkacaggca ttagcckttta      300
tgcttggscc ccaggtcctt ttttttttaaa anntnaaa                              338


<210> 30
<211> 500
<212> DNA
<213> Homo sapiens

<400> 30
gaattctttt ttttttttt ttttctcagt acccactaca gcattatcct tgtctgcagg         60
tttgaggatg gatctgctcc cagggagggc gagacaagtg cacctaggtt gccggaagtt       120
gtacgcatca cttctgctgg tatctgttag cccaacccag gccacgtgga ctctcccaga       180
tgccagagac catgagaaga agaagagaaa gggcttggag aaggatggac cactcaccat       240
ttgctggaat aaacaatact gcagtccttg ttttaacact tcattttcat catgccacac       300
tgtcggtaac tgaataacgg ccacccacag atgtcagggc ttatccctgg aacccggaaa       360
tggtgtttgc agatgggagt gaaagcaggt ctttgyagaa gggatcaagt tagggatctt       420
gagatgggaa gaatttcctg gattgtcctg ctagacacta aaaaaaaaa aaaaaaaaa        480
gaattcaaaa agcttctcga                                                   500


<210> 31
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (647)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (651)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (653)
<223> n equals a,t,g, or c

<400> 31
gcgaattcat ttccganctg aggaagcaaa aaaccccgcc aacaatgtca ttccacccac         60
cagtgccaca atgggtcagc tgtaccagga acaccatgaa gaagacttct ttctctacat       120
tgcctacagt gacgaaagtg tctacggtct gtgaagctgc tgcccctgag ctggaggggg       180
gtctcattct acaaagagag aggtggcccc cctttcttga cctcctcctc cttcaagctc       240
aaacaccacc tcccttattc aggaccggca cttcttaatg tttgtggctt tctctccagc       300
```

```
ctctcttagg aggggtaatg gtggagttgg catcttgtaa ctctcctttc tcctttcttc      360
ccctttctct gcccgccttt cccatcctgc tgtagacttc ttgattgtca gtctgtgtca      420
catccagtga ttgttttggt ttctgttccc tttctgactg cccaagggge tcagaacccc      480
agcaatccct tcctttcact accttctttt ttgggggtag ttggaaggga ctgaaattgt      540
ggggggaagg taggaggcac atcaataaag aggaaaccac caagctgaaa aaaaaaaaaa      600
aaaaactcga ggggggggccc ggtacccatt ggccctaagg gggggntta nant           654
```

<210> 32
<211> 94
<212> PRT
<213> Homo sapiens

<400> 32

```
Met Ile Tyr Tyr Phe Leu Lys Asn Gln Cys Gly Leu Pro Phe Leu Phe
 1               5                  10                  15

Leu Leu Ile Pro Leu Phe Glu Phe Leu Cys Val Ser Phe Ala Phe Pro
            20                  25                  30

Ser Gln Ser Gly Gly Val Arg Pro Ala Leu Trp Asp Glu Arg Ser Cys
        35                  40                  45

Gly Tyr Val Ser Ala Gly Thr Lys Arg Ala Glu Gly Glu Val Trp Lys
    50                  55                  60

Gly Gln Gly Glu Glu Met Gly Ser Ile Val Lys Arg Leu Val Pro Leu
65                  70                  75                  80

Ser Lys Tyr Val Glu Asn Asp Asp Gly Lys Val Ser Pro Cys
                85                  90
```

<210> 33
<211> 23
<212> PRT
<213> Homo sapiens

<400> 33

```
Met His Pro Gln Ser Ala Phe Cys Ala Leu Ala Ala Ala Asn Ala Ser
 1               5                  10                  15

Leu Gly Arg Ser Ser Cys Gln
            20
```

<210> 34
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 34
```
Met His Cys Phe Phe Leu Trp Leu Leu Leu Phe Gly Leu Leu Gly Ile
```

```
        1                    5                    10                    15

        Ser Gly Phe Leu Gly Tyr Ile Ser Val Ala Gly Xaa Ser Ile Tyr Val
                    20                    25                    30

        Met Trp Lys Val Glu Lys Glu Met Asn Thr
                35                    40


<210> 35
<211> 71
<212> PRT
<213> Homo sapiens

<400> 35
Met Phe Leu Ser Leu Pro Thr Leu Thr Val Leu Ile Pro Leu Val Ser
  1             5                    10                    15

Leu Ala Gly Leu Phe Tyr Ser Ala Ser Val Glu Glu Asn Phe Pro Gln
                20                    25                    30

Gly Cys Thr Ser Thr Ala Ser Leu Cys Phe Tyr Ser Leu Leu Leu Pro
            35                    40                    45

Ile Thr Ile Pro Val Tyr Val Phe Phe His Leu Trp Thr Trp Met Gly
        50                    55                    60

Ile Lys Leu Phe Arg His Asn
  65                    70


<210> 36
<211> 410
<212> PRT
<213> Homo sapiens

<400> 36
Met Glu Leu Pro Ser Gly Pro Gly Pro Glu Arg Leu Phe Asp Ser His
  1             5                    10                    15

Arg Leu Pro Gly Asp Cys Phe Leu Leu Leu Val Leu Leu Leu Tyr Ala
                20                    25                    30

Pro Val Gly Phe Cys Leu Leu Val Leu Arg Leu Phe Leu Gly Ile His
            35                    40                    45

Val Phe Leu Val Ser Cys Ala Leu Pro Asp Ser Val Leu Arg Arg Phe
        50                    55                    60

Val Val Arg Thr Met Cys Ala Val Leu Gly Leu Val Ala Arg Gln Glu
    65                    70                    75                    80

Asp Ser Gly Leu Arg Asp His Ser Val Arg Val Leu Ile Ser Asn His
                85                    90                    95

Val Thr Pro Phe Asp His Asn Ile Val Asn Leu Leu Thr Thr Cys Ser
                100                   105                   110
```

Thr Pro Leu Leu Asn Ser Pro Pro Ser Phe Val Cys Trp Ser Arg Gly
    115   120   125

Phe Met Glu Met Asn Gly Arg Gly Glu Leu Val Glu Ser Leu Lys Arg
    130   135   140

Phe Cys Ala Ser Thr Arg Leu Pro Pro Thr Pro Leu Leu Leu Phe Pro
145   150   155   160

Glu Glu Glu Ala Thr Asn Gly Arg Glu Gly Leu Leu Arg Phe Ser Ser
              165   170   175

Trp Pro Phe Ser Ile Gln Asp Val Val Gln Pro Leu Thr Leu Gln Val
        180   185   190

Gln Arg Pro Leu Val Ser Val Thr Val Ser Asp Ala Ser Trp Val Ser
        195   200   205

Glu Leu Leu Trp Ser Leu Phe Val Pro Phe Thr Val Tyr Gln Val Arg
    210   215   220

Trp Leu Arg Pro Val His Arg Gln Leu Gly Glu Ala Asn Glu Glu Phe
225   230   235   240

Ala Leu Arg Val Gln Gln Leu Val Ala Lys Glu Leu Gly Gln Thr Gly
        245   250   255

Thr Arg Leu Thr Pro Ala Asp Lys Ala Glu His Met Lys Arg Gln Arg
        260   265   270

His Pro Arg Leu Arg Pro Gln Ser Ala Gln Ser Ser Phe Pro Pro Ser
        275   280   285

Pro Gly Pro Ser Pro Asp Val Gln Leu Ala Thr Leu Ala Gln Arg Val
    290   295   300

Lys Glu Val Leu Pro His Val Pro Leu Gly Val Ile Gln Arg Asp Leu
305   310   315   320

Ala Lys Thr Gly Cys Val Asp Leu Thr Ile Thr Asn Leu Leu Glu Gly
        325   330   335

Ala Val Ala Phe Met Pro Glu Asp Ile Thr Lys Gly Thr Gln Ser Leu
        340   345   350

Pro Thr Ala Ser Ala Ser Lys Phe Pro Ser Ser Gly Pro Val Thr Pro
    355   360   365

Gln Pro Thr Ala Leu Thr Phe Ala Lys Ser Ser Trp Ala Arg Gln Glu
    370   375   380

Ser Leu Gln Glu Arg Lys Gln Ala Leu Tyr Glu Tyr Ala Arg Arg Arg
385   390   395   400

Phe Thr Glu Arg Arg Ala Gln Glu Ala Asp
        405   410

```
<210> 37
<211> 170
<212> PRT
<213> Homo sapiens

<400> 37
Met Arg Pro Pro Ser Ser Ser Gly Ala Ala Ala Ser Gln Thr Val Asp
 1               5                  10                  15

Thr Phe Val Thr Val Gly Asn Val Glu Lys Glu Val Phe Phe Met Val
              20                  25                  30

Phe Leu Val Gln Leu Thr His Cys Gly Thr Gly Gly Trp Asn Asp Ile
         35                  40                  45

Val Asp Lys Glu Lys Gln Gly Ile Leu Ser Ser Glu Met Asn Ser Leu
      50                  55                  60

Pro Asp Gln Glu Val Glu Leu Thr Asn Cys Glu Ile Arg Arg His Gln
 65                  70                  75                  80

Val Phe Leu Phe Val Gln Val Ser Tyr Pro Ser Phe Gly Ser Leu Phe
                 85                  90                  95

Tyr Tyr His Arg His Pro Val Arg Val Phe Leu Ser Asp Leu Leu Ala
            100                 105                 110

Leu Arg Ala Ala Leu Leu Glu Arg Met Leu Phe Phe Val His Glu Leu
         115                 120                 125

His Pro Pro Gly Asn Arg Ala Gly Gln Gly Trp Ala Glu Gly Thr Gln
     130                 135                 140

Gly Gly Arg Asp Gly Gly Arg Arg Arg Arg Arg Arg Ala Gly Gly
145                 150                 155                 160

Phe Ser Gly Ala Asp Pro Arg Ile Cys Ala
                 165                 170


<210> 38
<211> 37
<212> PRT
<213> Homo sapiens

<400> 38
Met Leu Phe Pro Ile Leu Leu Gln Thr Met Phe Ser Ala Tyr Leu Gly
 1               5                  10                  15

Ser Glu Gln Tyr Lys Leu Leu Ile Lys Ala Leu Gln Leu Ser Glu Pro
              20                  25                  30

Gly Lys Glu Ile His
         35


<210> 39
<211> 64
```

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 39
Met Lys Val Leu Ile Ser Ser Leu Leu Leu Leu Leu Pro Leu Met Leu
 1   5   10   15

Met Ser Met Val Ser Ser Ser Leu Asn Pro Gly Val Ala Arg Gly His
            20   25   30

Arg Asp Arg Gly Gln Xaa Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln
        35   40   45

Glu Cys Xaa Cys Lys Asp Trp Phe Leu Arg Ala Arg Glu Glu Asn Ser
     50   55   60

<210> 40
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 40
Met Cys Cys Ser Leu Ser Met Ile Gly Ala Ala Ser Ser Pro Ser Ser
 1   5   10   15

Gly Cys Ser Ala Arg Ala Arg Ala Ser Ser Gly Leu Pro Trp Leu Trp
            20   25   30

Gln Pro Cys Pro Gly Pro Arg Phe Arg Cys Ser Leu Trp Met Arg Arg
        35   40   45

Ser Gln Ile Val Ala Pro Ser Thr Cys Ala Pro Arg Ser Gly Ala Xaa
     50   55   60

```
Gly Leu Ala Val Gly Cys Gly Ala Ile Gly Ala Leu Val Leu Gly Ala
65                  70              75                  80

Gly Leu Leu Phe Ser Leu Arg Ser Val Arg Ser Val Val Leu Arg Ala
                85              90                  95

Gly Gly Gln Gln Val Thr Leu Thr Thr His Ala Pro Phe Gly Leu Gly
            100             105             110

Ala His Phe Thr Val Pro Leu Lys Gln Val Ser Cys Met Ala His Arg
        115             120             125

Gly Glu Val Pro Ala Met Leu Pro Leu Lys Xaa Lys Gly Arg Arg Phe
        130             135             140

Tyr Phe Leu Leu Asp Lys Thr Gly His Phe Pro
145             150             155
```

<210> 41
<211> 119
<212> PRT
<213> Homo sapiens

<400> 41
```
Met Thr Val Tyr Ala Leu Val Val Val Ser Tyr Phe Leu Ile Thr Gly
1               5               10              15

Gly Ile Ile Tyr Asp Val Ile Val Glu Pro Pro Ser Val Gly Ser Met
            20              25              30

Thr Asp Glu His Gly His Gln Arg Pro Val Ala Phe Leu Ala Tyr Arg
        35              40              45

Val Asn Gly Gln Tyr Ile Met Glu Gly Leu Ala Ser Ser Phe Leu Phe
    50              55              60

Thr Met Gly Gly Leu Gly Phe Ile Ile Leu Asp Arg Ser Asn Ala Pro
65              70              75              80

Asn Ile Pro Lys Leu Asn Arg Phe Leu Leu Leu Phe Ile Gly Phe Val
            85              90              95

Cys Val Leu Leu Ser Phe Phe Met Ala Arg Val Phe Met Arg Met Lys
            100             105             110

Leu Pro Gly Tyr Leu Met Gly
        115
```

<210> 42
<211> 56
<212> PRT
<213> Homo sapiens

<400> 42
```
Met Glu Ser Gly His Leu Leu Trp Ala Leu Leu Phe Met Gln Ser Leu
1               5               10              15
```

Trp Pro Gln Leu Thr Asp Gly Ala Thr Arg Val Tyr Tyr Leu Gly Ile
            20   25   30

Arg Asp Val Gln Trp Asn Tyr Ala Pro Lys Gly Arg Asn Val Ile Thr
            35   40   45

Asn Gln Pro Leu Asp Ser Asp Met
        50   55

<210> 43
<211> 109
<212> PRT
<213> Homo sapiens

<400> 43
Met Lys Asp Phe Asn His Ser Tyr His Ala Cys Gly Val Ile Ala Thr
  1   5   10   15

Ile Ala Phe Leu Met Ile Asn Ala Val Ser Asn Gly Gln Val Arg Gly
            20   25   30

Asp Ser Tyr Ser Glu Gly Cys Leu Gly Gln Thr Gly Ala Arg Ile Trp
        35   40   45

Leu Phe Val Gly Phe Met Leu Ala Phe Gly Ser Leu Ile Ala Ser Met
        50   55   60

Trp Ile Leu Phe Gly Gly Tyr Val Ala Lys Glu Lys Asp Ile Val Tyr
 65   70   75   80

Pro Gly Ile Ala Val Phe Phe Gln Asn Ala Phe Ile Phe Phe Gly Gly
                85   90   95

Leu Val Phe Lys Phe Gly Arg Thr Glu Asp Leu Trp Gln
            100   105

<210> 44
<211> 69
<212> PRT
<213> Homo sapiens

<400> 44
Met Val Thr Ile Phe Asn Ile Ile Thr Thr Thr Thr Ile Leu Pro Thr
  1   5   10   15

Gln Thr Ala Ala Ala Pro Pro Ser Trp Thr Pro Ala Val Cys Ser Leu
            20   25   30

Ser Ser Trp Pro Gly Ser Pro Arg Ser Trp Ala Gly Pro Val Leu Arg
            35   40   45

Asp Ser Ala Arg Arg Cys Ala Trp Asn Ser Trp Thr Thr Arg Ala Asp
        50   55   60

Pro Ser Ser Ala Met

65

<210> 45
<211> 67
<212> PRT
<213> Homo sapiens

<400> 45
Met Gly Lys Cys Leu Cys Arg Gly Ala Glu Leu Ser Leu Cys Phe Ser
1   5   10   15

Phe Phe Pro Leu Leu Leu Pro Leu His Thr Pro Val Ala Gly Arg Asn
            20   25   30

Leu Gly Phe Pro Glu Ser Leu Gly Val Pro Pro Phe Leu Pro His Pro
        35   40   45

Gly Gly Thr Pro Arg Ala Pro Gly Leu Phe Leu Leu Leu Phe Ser Phe
    50   55   60

Trp Ala Val
65

<210> 46
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 46
Met Leu Leu Leu Met Ile Leu Glu Xaa Phe Pro Cys Pro Gln Pro Gly
1   5   10   15

Thr Asn Val Ile Ile Ile Ser Met Cys Phe Phe Leu Ser His Ser Asn
            20   25   30

Ala Ile Tyr Leu Gln His Tyr His Phe
        35   40

<210> 47
<211> 52
<212> PRT
<213> Homo sapiens

<400> 47
Met Tyr Phe Leu Ser Ser Leu Leu Ile His Glu His Val Ile Ser Val
1   5   10   15

Ile Phe Ser Ile Leu Ile Phe Ser Ser Val Leu His Ser Phe Gln Tyr
            20   25   30

```
Thr Asn Pro Val Pro Phe Phe Phe Arg Phe Thr Pro Ser Thr Leu Phe
        35                  40                  45

Phe Glu Gln Leu
    50
```

```
<210> 48
<211> 47
<212> PRT
<213> Homo sapiens

<400> 48
Met Gly Asn Cys His Asp His Arg Gly Leu Glu Phe Cys Phe Phe Phe
1               5                  10                  15

Phe Phe Phe Phe Phe Gly Gly Leu Gly Asp Ser Ser Gln Asp His Ile
            20                  25                  30

Leu Ala Ser Phe Ser Pro Thr Pro Phe Arg Lys Ile Ser Asn Arg
        35                  40                  45
```

```
<210> 49
<211> 49
<212> PRT
<213> Homo sapiens

<400> 49
Met His His His Thr Leu Leu Ile Phe Val Phe Leu Val Glu Thr Ala
1               5                  10                  15

Phe His His Leu Gly Gln Thr Gly Leu Lys Leu Leu Ala Ser Ser Asp
            20                  25                  30

Ser Ser Ala Ser Ala Ser Gln Lys Lys Lys Lys Lys Lys Lys Lys Asn
        35                  40                  45

Ser
```

```
<210> 50
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 50
Met His Gln His Ala Gln Leu Ser Ile Leu Phe Leu Val Glu Ile Arg
1               5                  10                  15

Ser Cys Cys Val Ala Gln Ala Ser Leu Lys Phe Leu Ala Ser Ser Asn
            20                  25                  30
```

Pro Ser Ala Leu Ala Ser Gln Ile Val Gly Phe Xaa Arg His
        35   40   45

<210> 51
<211> 30
<212> PRT
<213> Homo sapiens

<400> 51
Met Asp His Ser Pro Phe Ala Gly Ile Asn Asn Thr Ala Val Leu Val
1   5   10   15

Leu Thr Leu His Phe His His Ala Thr Leu Ser Val Thr Glu
            20   25   30

<210> 52
<211> 25
<212> PRT
<213> Homo sapiens

<400> 52
Met Val Glu Leu Ala Ser Cys Asn Ser Pro Phe Ser Phe Leu Pro Leu
1   5   10   15

Ser Leu Pro Ala Phe Pro Ile Leu Leu
            20   25

<210> 53
<211> 35
<212> PRT
<213> Homo sapiens

<400> 53
Cys Ala Gly Cys Asp Glu Leu Ile Phe Ser Asn Glu Tyr Thr Gln Ala
1   5   10   15

Glu Asn Gln Asn Trp His Leu Lys His Phe Cys Cys Phe Asp Cys Asp
            20   25   30

Ser Ile Leu
        35

<210> 54
<211> 159
<212> PRT
<213> Homo sapiens

<400> 54
Ala Arg Gly Phe Val Cys Ser Thr Cys His Glu Leu Leu Val Asp Met
1   5   10   15

Ile Tyr Phe Trp Lys Asn Glu Lys Leu Tyr Cys Gly Arg His Tyr Cys
            20   25   30

Asp Ser Glu Lys Pro Arg Cys Ala Gly Cys Asp Glu Leu Ile Phe Ser
     35   40   45

Asn Glu Tyr Thr Gln Ala Glu Asn Gln Asn Trp His Leu Lys His Phe
   50   55   60

Cys Cys Phe Asp Cys Asp Ser Ile Leu Ala Gly Glu Ile Tyr Val Met
65   70   75   80

Val Asn Asp Lys Pro Val Cys Lys Pro Cys Tyr Val Lys Asn His Ala
        85   90   95

Val Val Cys Gln Gly Cys His Asn Ala Ile Asp Pro Glu Val Gln Arg
      100   105   110

Val Thr Tyr Asn Asn Phe Ser Trp His Ala Ser Thr Glu Cys Phe Leu
     115   120   125

Cys Ser Cys Cys Ser Lys Cys Leu Ile Gly Gln Lys Phe Met Pro Val
     130   135   140

Glu Gly Met Val Phe Cys Ser Val Glu Cys Lys Lys Arg Met Ser
145   150   155

<210> 55
<211> 38
<212> PRT
<213> Homo sapiens

<400> 55
Ile Arg His Glu Leu Leu Ile Gly Ser Asn Val Ser Pro Lys Arg Asn
  1   5   10   15

Glu Glu Gln Gly Arg Val Thr Phe Ser Phe Ser Leu Pro Leu Pro Trp
      20   25   30

Ile Trp Asn Ser Thr Ile
      35

<210> 56
<211> 150
<212> PRT
<213> Homo sapiens

<400> 56
Gln Met Ala Val Ser Phe Ser Pro Leu Gln Val Gly Asp Arg Ile Val
  1   5   10   15

Thr Ile Cys Gly Thr Ser Thr Glu Gly Met Thr His Thr Gln Ala Val
      20   25   30

Asn Leu Leu Lys Asn Ala Ser Gly Ser Ile Glu Met Gln Val Val Ala
     35   40   45

Gly Gly Asp Val Ser Val Val Thr Gly His Gln Gln Glu Pro Ala Ser

```
                 50                         55                        60

Ser Ser Leu Ser Phe Thr Gly Leu Thr Ser Ser Ser Ile Phe Gln Asp
65                  70                  75                  80

Asp Leu Gly Pro Pro Gln Cys Lys Ser Ile Thr Leu Glu Arg Gly Pro
                    85                  90                  95

Asp Gly Leu Gly Phe Ser Ile Val Gly Arg Ile Trp Ala Ala Leu Met
                100                 105                 110

Gly Asp Leu Pro Ile Tyr Val Lys Thr Val Phe Cys Lys Gly Glu Gln
            115                  120                125

Pro Leu Glu Asp Gly Arg Leu Glu Lys Gly Gly Asp Ser Arg Ser Leu
    130                 135                 140

Leu Ser Met Gly Arg Val
145                 150
```

```
<210> 57
<211> 31
<212> PRT
<213> Homo sapiens

<400> 57
Val Tyr Tyr Thr Arg Ala Arg Thr Arg Trp Leu Arg Leu Gln Tyr Ser
1               5                   10                  15

Trp Glu Asp Met Gly Ser Pro His Gly Arg Leu Thr His Leu Cys
                20                  25                  30
```

```
<210> 58
<211> 180
<212> PRT
<213> Homo sapiens

<400> 58
Thr Pro Ala Trp Leu Arg Lys Glu Glu Ala Pro Thr Gly Cys Trp Glu
1               5                   10                  15

Glu Ser Ile Arg Leu Lys Met Glu Asn His Lys Ser Asn Asn Lys Glu
                20                  25                  30

Asn Ile Thr Ile Val Asp Ile Ser Arg Lys Ile Asn Gln Leu Pro Glu
            35                  40                  45

Ala Glu Arg Asn Leu Leu Glu Asn Gly Ser Val Tyr Val Gly Leu Asn
    50                  55                  60

Ala Ala Leu Cys Gly Leu Ile Ala Asn Ser Leu Phe Arg Arg Ile Leu
65                  70                  75                  80

Asn Val Thr Lys Ala Arg Ile Ala Ala Gly Leu Pro Met Ala Gly Ile
                85                  90                  95
```

Pro Phe Leu Thr Thr Asp Leu Thr Tyr Arg Cys Phe Val Ser Phe Pro
         100   105   110

Leu Asn Thr Gly Asp Leu Asp Cys Glu Thr Cys Thr Ile Thr Arg Ser
     115   120   125

Gly Leu Thr Gly Leu Val Ile Gly Gly Leu Tyr Pro Val Phe Leu Ala
   130   135   140

Ile Pro Val Asn Gly Gly Leu Ala Ala Arg Tyr Gln Ser Ala Leu Leu
145   150   155   160

Pro His Lys Gly Asn Ile Leu Ser Tyr Trp Ile Arg Thr Ser Lys Pro
         165   170   175

Val Phe Arg Lys
         180

<210> 59
<211> 93
<212> PRT
<213> Homo sapiens

<400> 59
Gly Val Ala Arg Gly His Arg Asp Arg Gly Gln Ala Ser Arg Arg Trp
  1   5   10   15

Leu Gln Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp Trp Phe Leu Arg
        20   25   30

Ala Pro Arg Arg Lys Phe Met Thr Val Ser Gly Leu Pro Lys Lys Gln
     35   40   45

Cys Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys Thr Arg His Gln
   50   55   60

Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala Cys Gln Gln Phe
 65   70   75   80

Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro Leu
        85   90

<210> 60
<211> 39
<212> PRT
<213> Homo sapiens

<400> 60
Ser Ile Asp His Gln Ala Glu Tyr Pro Asp Leu Ser His Pro Gln Gly
  1   5   10   15

Ser Gly Ala Ser Ser Arg Glu Pro Ser Ile Ile Phe Phe Lys Gln Leu
        20   25   30

Thr Ala Ala Pro Thr Val Ala
     35

```
<210> 61
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 61
Gly Thr Arg Arg Arg Trp Pro Thr Gly Leu Leu Ala Val Leu Arg Pro
  1               5                  10                  15

Leu Leu Thr Cys Arg Pro Leu Gln Gly Thr Thr Leu Gln Arg Asp Val
             20              25                  30

Leu Leu Phe Glu His Asp Arg Gly Arg Phe Phe Thr Ile Leu Gly Leu
         35                  40                  45

Phe Cys Ala Gly Gln Gly Val Phe Trp Ala Ser Met Ala Val Ala Ala
        50                  55                  60

Val Ser Arg Pro Pro Val Pro Val Gln Pro Leu Asp Ala Glu Val Pro
 65                  70                  75                   80

Asn Arg Gly Pro Phe Asp Leu Arg Ser Ala Xaa Trp Arg Xaa Arg Ser
                 85                  90                  95

Gly Arg Arg Leu Arg Arg His Arg Ser Pro Arg Thr Arg Cys Trp Ser
            100                 105                 110

Ser Leu Leu Ser Pro Val Cys Ala Leu Ser Gly Ala Ser Ser Trp Arg
         115                 120                 125

Ala Ala Gly Asp Pro His His Ser Cys Pro Leu Trp Leu Gly Gly Pro
        130                 135                 140

Phe His Ser Ser Phe Glu Ala Gly Ile Leu His Gly Pro Pro Gly
145                 150                 155


<210> 62
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 62

| Val | Val | Arg | Val | Thr | Cys | Cys | Pro | Pro | Ala | Arg | Ser | Thr | Thr | Glu | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

Thr Asp Arg Arg Glu Lys Arg Arg Pro Ala Pro Ser Thr Arg Ala Pro
            20   25   30

Met Ala Pro Gln Pro Thr Ala Arg Pro Xaa Ala Pro Glu Arg Gly Ala
        35   40   45

Gln Val Glu Gly Ala Thr Ile Trp Asp Leu Arg Ile Gln Arg Leu His
    50   55   60

Arg Asn Arg Gly Pro Gly His Gly Cys His Ser His Gly Ser Pro Glu
65   70   75   80

Asp Ala Leu Ala Arg Ala Glu Gln Pro Glu Asp Gly Glu Glu Ala Ala
            85   90   95

Pro Ile Met Leu Lys Glu Gln His Ile Pro Leu Gln Arg Arg Ala Leu
        100   105   110

Gln Gly Pro Ala Gly Glu Gln Gly Pro Gln His Gly
    115   120

<210> 63
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 63

Asp Pro Arg Val Arg Ala Gly Leu Phe Pro Gly Gly Ala Trp Gly Leu
1   5   10   15

Arg Pro Arg Thr Ala Xaa Ala Ala Thr Asn Met Glu Thr Leu Tyr Arg
            20   25   30

Val Pro Phe Leu Val Leu Glu Cys Pro Asn Leu Lys Leu Lys Lys Pro
        35   40   45

Pro Trp Leu His Met Pro Ser Ala
    50   55

<210> 64
<211> 56
<212> PRT
<213> Homo sapiens

<400> 64
Leu Met Glu Pro Leu Glu Ser Thr Thr Trp Ala Ser Gly Met Cys Ser

```
     1                5                       10                        15

   Gly Thr Met Leu Pro Arg Glu Glu Met Ser Ser Arg Thr Ser Leu Trp
               20                  25                  30

   Thr Val Thr Cys Arg Phe Asn Phe Leu Trp Tyr Leu Arg Gly Ser Tyr
               35                  40                  45

   Gly Ser Thr Leu Glu Val Arg Lys
       50                  55
```

<210> 65
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 65
```
   Ile Ser Ser Ile Val Gly Met Arg Leu Glu Asn Ser Lys Tyr Gly Ile
     1                5                   10                  15

   Xaa Phe Arg Thr Leu Lys Met Leu Arg Gln Thr Pro Asp Glu Met Leu
               20                  25                  30

   Xaa Ser Asp Ser Thr Ser Phe Phe Pro Gly Asn Leu Pro Leu Ser Met
               35                  40                  45

   Tyr Ser Ser Glu Gln Ser Gly Ala Gly Cys Tyr His Thr Leu Gly Lys
       50                  55                  60

   Gly Pro Gln Glu Ala Thr Ser
   65                  70
```

<210> 66
<211> 76
<212> PRT
<213> Homo sapiens

<400> 66
```
   Asn Arg Gly Ser Glu Ala Gly Arg Arg Gly Ala Thr Pro Gly Ser Gly
     1                5                   10                  15

   Thr Thr Ala Arg Arg Gly Trp Thr Asp Leu Lys Lys Met Ser Gly Phe
               20                  25                  30

   Leu Glu Gly Leu Arg Cys Ser Glu Cys Ile Asp Trp Gly Glu Lys Arg
               35                  40                  45
```

```
Asn Thr Ile Ala Ser Ile Ala Ala Gly Val Leu Phe Phe Thr Gly Trp
    50                  55          .             60

Trp Ile Ile Ile Asp Ala Ala Val Ile Tyr Pro Thr
 65              70                  75
```

<210> 67
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 67
```
Lys Thr Leu Val Thr Ser Leu Lys Thr Gly Thr Lys Ala Asn Gly Arg
 1               5               10                  15

Leu Pro Leu Glu Arg Ser Ala His Arg Ala Thr Ser His Ala Tyr Ser
            20                  25                  30

Gln Met Ala Tyr Ser Lys Leu Ala Leu Pro Thr Ser Ser Cys Glu Pro
        35                  40                  45

Arg Ala Ala Glu Ser Pro Gly Thr Gln Arg Pro Gly Met Xaa Arg Arg
    50                  55                  60

Val Val Val Val Gly Val Ala Pro Ser Gly Pro Gly Ala Pro Ala Cys
 65              70                  75                      80

Arg Pro Val Ser Ala Cys Ala Thr Glu Pro Gly Gly Trp Tyr Cys Cys
                85                  90                  95

Ile Arg Val Ser Gly Gly Cys Gly Arg Phe Val Phe Leu Ala Lys Ile
            100                 105                 110

Gly Gly Val Arg Arg Ala Gly Ala Ala Arg His Arg Ala Pro Glu Pro
        115                 120                 125

Leu His Asp Gly Ala Gly Leu Thr
    130                 135
```

<210> 68
<211> 175
<212> PRT
<213> Homo sapiens

<400> 68
```
Cys Cys Asn Gly Asn Trp Pro Ser Cys Asn Ala Lys Val Thr Phe Leu
 1               5               10                  15

Leu Ser Pro Ala Leu Thr Met Trp Arg Val Val Thr Glu Pro Pro Cys
            20                  25                  30
```

```
Ile Arg Thr Ser Ser Tyr Lys Leu Leu Ser Ala Ala Trp Ser Pro Phe
        35              40                45

Ser Thr Ser Ser Pro Pro Pro Pro Tyr Ser Pro Leu Arg Pro Pro Pro
     50              55              60

Arg Arg His His Gly His Gln Pro Cys Ala Ala Tyr Gln Ala Gly Gln
 65              70              75                  80

Gly His Gln Gly Pro Gly Gln Asp Arg Phe Ser Gly Thr Val His Ala
                85              90                  95

Gly Ala Arg Gly Ile His Gly Arg His Glu Pro Ile His His Pro Gln
            100             105             110

Cys Lys Arg Pro Arg Ala Arg Gly Arg Arg Ala His Pro Phe Gly Val
        115             120             125

Arg Ala Arg Ser Pro Glu Val Ala Leu Ser Leu Ala Ala Arg Trp Val
    130             135             140

Leu Asp Val Gly Phe Asp His Leu Ala Asp Gly Asn Gly Leu Ser Gln
145             150             155             160

Ser Ala Pro Phe Phe Cys Pro Pro His Val Thr Glu Met Leu Leu
            165             170             175


<210> 69
<211> 201
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 69
Phe Gly Thr Arg Ser Gln Ala Thr Ser Ala Ser Ile Asn Asn Ser Asn
 1               5                   10                  15

Pro Ser Thr Ser Glu Gln Ala Ser Asn Thr Xaa Ser Ala Val Thr Ser
            20              25              30

Ser Gln Pro Ser Thr Val Ser Glu Thr Ser Ala Thr Leu Thr Ser Asn
        35              40              45

Ser Thr Thr Gly Thr Ser Ile Gly Asp Asp Ser Arg Arg Thr Thr Ser
     50              55              60

Ser Ala Val Thr Glu Thr Gly Pro Pro Ala Met Pro Arg Leu Pro Ser
 65              70              75                  80

Cys Cys Pro Gln His Ser Pro Cys Gly Gly Ser Ser Gln Asn His His
            85              90                  95
```

Ala Leu Gly His Pro His Thr Ser Cys Phe Gln Gln His Gly His His
            100   105   110

Phe Gln His His His His His His His Thr Pro His Ser Asp Arg Arg
        115   120   125

Arg Ala Ala Ile Met Asp Thr Ser Arg Val Gln Pro Ile Lys Leu Ala
    130   135   140

Arg Val Thr Lys Val Leu Gly Arg Thr Gly Ser Gln Gly Gln Cys Thr
145   150   155   160

Gln Val Arg Val Glu Phe Met Asp Asp Thr Ser Arg Ser Ile Ile Arg
                165   170   175

Asn Val Lys Gly Pro Val Arg Glu Gly Asp Val Leu Thr Leu Leu Glu
            180   185   190

Ser Glu Arg Glu Ala Arg Arg Leu Arg
        195   200

<210> 70
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 70
Gly Xaa Arg Arg Gly Arg Glu Trp Asp Cys Ala Ile Met Phe Ile Arg
  1   5   10   15

Arg Leu Asp Phe Gly Val Cys Ser Arg Gln Ile Gln Asn Lys Tyr Leu
            20   25   30

Arg Leu Glu Asn Arg Lys Ser Thr Ile His Thr Lys Cys Ser Leu Gln
        35   40   45

Glu Val Ala Val Ser Lys Ser Arg Gln Gly Pro Asn Ser Gly Gln Pro
    50   55   60

Leu Leu Pro Ala Asp Leu Asn Lys Gly Cys Ala Ile Val Phe Tyr Phe
65   70   75   80

Ile Ile Leu Phe Leu Phe Ile Ile Ile Asn Ile Ile Ile Ile Cys Phe
                85   90   95

Cys Cys Gly His Tyr His Trp Gln Ser Ser Phe Ser Pro Phe Leu Asp
            100   105   110

Ile Gly Val Leu Ser Leu Lys Asp Ser Thr Leu Arg Leu Lys Val Pro
        115   120   125

Lys Ala Ala

130

<210> 71
<211> 92
<212> PRT
<213> Homo sapiens

<400> 71
Ile Met Asn Ser Asp Ala Glu Val Thr Val Gly Ala Gly Leu Gly Gln
1   5   10   15

Asp Gly Arg Trp Pro Trp Arg Trp Glu Ser Val Cys Val Glu Ala Leu
            20   25   30

Ser Ser Leu Ser Val Ser Pro Phe Phe Leu Tyr Ser Phe Pro Phe Thr
        35   40   45

Pro Pro Trp Leu Glu Gly Thr Ser Ala Ser Leu Lys Ala Trp Gly Ser
    50   55   60

His Pro Ser Tyr Pro Thr Arg Glu Glu Arg Pro Gly Pro Arg Ala Cys
65   70   75   80

Phe Ser Ser Cys Phe Pro Phe Gly Gln Phe Asp His
                85   90

<210> 72
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 72
Ala Leu Cys Met Asn Arg Gly Leu Pro Val Leu Lys Ala Gln Val Phe
1   5   10   15

Ile Leu Tyr Leu Ser Arg Ala His Thr Lys Ile Gln Pro Ser Asn Lys
            20   25   30

His Asp Gly Ala Val Pro Leu Pro Ala Ser Pro Val Pro Leu Ser Pro
            35   40   45

Pro Gly Leu Gly Ser Ser Gly Val Gly Val Gly Arg Gly Pro Cys Pro
    50   55   60

Pro Cys Leu Asp Phe Ala Pro Leu Gly Pro Ala Gly Ser Arg Pro Val
65   70   75   80

Asn Val Ser Ser Ser Gly Thr Asp Ser Val Cys Ser Trp Ala Leu Gly
                85   90   95

Ser Phe Asp Lys Tyr Leu Pro Lys Gly Ser Gln Xaa

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<210> 73
<211> 176
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 73
Trp Xaa Trp Glu Pro Leu Gly Lys Tyr Leu Ser Asn Asp Pro Lys Ala
  1               5                  10                  15

Gln Glu Gln Thr Glu Ser Val Pro Asp Glu Leu Thr Phe Thr Gly Leu
             20                  25                  30

Glu Pro Ala Gly Pro Arg Gly Ala Lys Ser Arg Gln Gly Gly Gln Gly
         35                  40                  45

Pro Leu Pro Thr Pro Thr Pro Glu Asp Pro Arg Pro Gly Gly Asp Arg
     50                  55                  60

Gly Thr Gly Glu Ala Gly Ser Gly Thr Ala Pro Ser Cys Leu Leu Glu
 65                  70                  75                  80

Gly Trp Ile Leu Val Cys Ala Leu Asp Arg Tyr Arg Ile Asn Thr Cys
                 85                  90                  95

Ala Leu Arg Thr Gly Ser Pro Arg Phe Ile Gln Ser Ala His Tyr Arg
             100                 105                 110

Lys Leu Leu Cys Gln Asn Pro Gly Lys Asp Pro Thr Pro Gly Ser Pro
         115                 120                 125

Ser Ser Leu Leu Thr Ser Thr Arg Ala Val Leu Leu Phe Phe Ile Leu
     130                 135                 140

Leu Phe Tyr Phe Ser Leu Leu Leu Ile Leu Leu Leu Phe Ala Phe
145                 150                 155                 160

Ala Val Val Thr Ile Ile Gly Lys Val Pro Phe Pro Leu Ser Trp Thr
                 165                 170                 175


<210> 74
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 74
Ala Leu Phe Ile Phe Pro Asn Phe Phe His Ser Pro Gly Ile Ile His
 1   5   10   15

Cys Ser Pro Ser Leu Pro Cys Ser Asp Met Xaa Pro Met Ser Pro Gln
            20   25   30

Gly Arg Leu Xaa Cys His Lys
            35

<210> 75
<211> 12
<212> PRT
<213> Homo sapiens

<400> 75
His Thr Gln Val Glu Phe Ile Pro Arg Met Gln Cys
 1   5   10

<210> 76
<211> 16
<212> PRT
<213> Homo sapiens

<400> 76
Leu Lys Ile Arg Lys Pro Ile Asn Val Ile Tyr His Ile Asn Arg Leu
 1   5   10   15

<210> 77
<211> 16
<212> PRT
<213> Homo sapiens

<400> 77
Arg Lys Met Gly Ile Glu Arg Asn Phe His Gln Ser Gly Lys Gly Ile
 1   5   10   15

<210> 78
<211> 21
<212> PRT

<213> Homo sapiens

<400> 78
Lys Val Pro Thr Ala Asn Ile Ile Leu Asn Gly Glu Arg Leu Asn Ala
 1   5   10   15

Phe Pro Ile Arg Thr
            20

<210> 79
<211> 28
<212> PRT
<213> Homo sapiens

<400> 79
Ile Phe Ser Ser Val Leu His Ser Phe Gln Tyr Thr Asn Pro Val Pro
 1   5   10   15

Phe Phe Phe Arg Phe Thr Pro Ser Thr Leu Phe Phe
            20   25

<210> 80
<211> 21
<212> PRT
<213> Homo sapiens

<400> 80
Lys Val Pro Thr Ala Asn Ile Ile Leu Asn Gly Glu Arg Leu Asn Ala
 1   5   10   15

Phe Pro Ile Arg Thr
            20

<210> 81
<211> 21
<212> PRT
<213> Homo sapiens

<400> 81
Met Tyr Phe Leu Ser Ser Leu Leu Ile His Glu His Val Ile Ser Val
 1   5   10   15

Ile Phe Ser Ile Leu
            20

<210> 82
<211> 41
<212> PRT
<213> Homo sapiens

<400> 82
Gln Ser Leu Thr Val Ser Pro Arg Leu Glu Cys Ser Ser Thr Ile Ser
 1   5   10   15

Ala Leu Cys Asn Ile Phe Leu Pro Gly Ser Ser Asp Ser His Ala Ser
            20   25   30

Ala Pro Gln Val Ala Gly Ile Thr Gly
        35   40

<210> 83
<211> 29
<212> PRT
<213> Homo sapiens

<400> 83
Glu Asp Gly Ser Ala Pro Arg Glu Gly Glu Thr Ser Ala Pro Arg Leu
1   5   10   15

Pro Glu Val Val Arg Ile Thr Ser Ala Gly Ile Cys Xaa
            20   25

<210> 84
<211> 39
<212> PRT
<213> Homo sapiens

<400> 84
Val Ala Gly Ser Cys Thr His His Phe Cys Trp Tyr Leu Leu Ala Gln
1   5   10   15

Pro Arg Pro Arg Gly Leu Ser Gln Met Pro Glu Thr Met Arg Arg Arg
            20   25   30

Arg Glu Arg Ala Trp Arg Arg
        35

<210> 85
<211> 103
<212> PRT
<213> Homo sapiens

<400> 85
His Leu Trp Val Ala Val Ile Gln Leu Pro Thr Val Trp His Asp Glu
1   5   10   15

Asn Glu Val Leu Lys Gln Gly Leu Gln Tyr Cys Leu Phe Gln Gln Met
            20   25   30

Val Ser Gly Pro Ser Phe Ser Lys Pro Phe Leu Phe Phe Phe Ser Trp
        35   40   45

Ser Leu Ala Ser Gly Arg Val His Val Ala Trp Val Gly Leu Thr Asp
    50   55   60

Thr Ser Arg Ser Asp Ala Tyr Asn Phe Arg Gln Pro Arg Cys Thr Cys
65   70   75   80

Leu Ala Leu Pro Gly Ser Arg Ser Ile Leu Lys Pro Ala Asp Lys Asp

	85		90		95

Asn Ala Val Val Gly Thr Glu
            100

<210> 86
<211> 95
<212> PRT
<213> Homo sapiens

<400> 86
Ser Val Pro Thr Thr Ala Leu Ser Leu Ser Ala Gly Leu Arg Met Asp
 1   5   10   15

Leu Leu Pro Gly Arg Ala Arg Gln Val His Leu Gly Cys Arg Lys Leu
          20   25   30

Tyr Ala Ser Leu Leu Leu Val Ser Val Ser Pro Thr Gln Ala Thr Trp
      35   40   45

Thr Leu Pro Asp Ala Arg Asp His Glu Lys Lys Lys Arg Lys Gly Leu
   50   55   60

Glu Lys Asp Gly Pro Leu Thr Ile Cys Trp Asn Lys Gln Tyr Cys Ser
 65   70   75   80

Pro Cys Phe Asn Thr Ser Phe Ser Ser Cys His Thr Val Gly Asn
          85   90   95